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201-39200

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NEW UTILITY PATENT APPLICATION TRANSMITTAL

(to be used for new applications only)

Attorney Docket Number

First Named Inventor

JIANHUA FAN

Total Pages in this Submission

10

APPLICATION ELEMENTS

Notice: Checklist items mentioned under Application Elements section construct a new utility patent application. Please refer to MPEP Sections 506, 601, (37CFR 1.77, 1.53, 35 USC 111, 112, 113) for detailed explanation regarding completeness of an original patent application.

1. ☒ Fee Transmittal Form (prescribed filing fee(s))

2. Specification

☒ Title of the Invention

☐ Cross References to Related Applications (if applicable)

☐ Statement Regarding Federally-sponsored Research/Development (if applicable)

☐ Reference to Microfiche Appendix (if applicable)

☒ Background of the Invention

☒ Brief Summary of the Invention

☒ Brief Description of the Drawings (if drawings filed)

☒ Detailed Description

☒ Claim or Claims

☒ Abstract of the Disclosure

3. ☐ Drawing(s) (when necessary as prescribed by 35 USC 113)

4. ☐ Executed Declaration

5. Genetic Sequence Submission (if applicable, all must be included)

☐ Paper Copy

☐ Computer Readable Copy

☐ Statement Verifying Identical Paper and Computer Readable Copy

ACCOMPANYING APPLICATION PARTS

6. ☐ Assignment Papers

7. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

8. ☐ Computer Program in Microfiche

9. ☐ English Translation Document (if applicable)

10. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations

11. ☐ Petition Checklist and Accompanying Petition

12. ☐ Preliminary Amendment

13. ☒ Proprietary Information

14. ☒ Return Receipt Postcard

15. ☒ Small Entity Statement

16. ☐ Additional Enclosures (please identify below):

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name

JIANHUA FAN

Signature

Jianhua Fan

Date

12-08-1997

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Application Number		Class		Independent Claims	
Date of Receipt	Application Type	GAU		Total Claims	
	Filing Date	Foreign Filing License?		Drawing Sheets	
	Small Entity	Foreign Address?		Special Handling?	

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12/12/97

JC635 U.S. PTO

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**VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(b))—INDEPENDENT INVENTOR**

Docket Number (Optional)

Applicant or Patentee: JIANHUA FAN

Application or Patent No.: _____

Filed or Issued: _____

Title: LEGGED POT

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- ☒ the specification filed herewith with title as listed above.
☒ the application identified above.
☒ the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

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- ☒ No such person, concern, or organization exists.
☐ Each such person, concern, or organization is listed below.

Separate verified statements are required from each named person, concern, or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

JIANHUA FAN

NAME OF INVENTOR

NAME OF INVENTOR

NAME OF INVENTOR

Jianhua Fan
Signature of inventor

Signature of inventor

Signature of inventor

12-08-1997
Date

Date

Date

BACKGROUND OF INVENTION

I. Field of the invention

This invention relates to a new design of pots, "Legged Pots", for plants, flowers, or vegetable growth to reduce products cost and environmental contamination by fertilizer and pesticide. The legged pot is a valuable pot to save labor and material cost, to reduce water and fertilizer loss, and soil use. It is very useful in greenhouses, nursery fields, residential, and commercial places.

II. Description of prior pots and watering system

Traditional pots have no legs, only few holes on the bottom for draining excess water to avoid plant damage. But, the plant must be watered frequently. If tray is used to hold water, the plant can be easily damaged. In greenhouses or nursery fields, the pots are sited on the ground or on the table with no flat. As a result, fertilizer and/or pesticide drain out with the water from the pot into the ground causing environmental contamination.

In greenhouse and nursery field, watering cost is very high. Scientists use trickle irrigation system to reduce the watering cost. The system worked well to solve this

problem. However, the cost for setting up the system (both labor and material costs) is still high, and workers have to frequently check each dropper to insure it is working properly. Sometimes the water bill increases, which means more water is wasted by using this method. The problem of soil and ground water contamination by fertilizer and pesticide is still not solved. Not many producers like to use the trickle irrigation system.

Scientists also use the wick method to reduce the frequency of watering needed for small pots. The problem of over-watering is solved using this method. However, the pot's cost doubles because a support pot has to be used, and the wick has to be inserted by hand. The limitation of this method is that the wick can be used only in small pots.

Some producers use hydroponics to produce their products. This method includes sand culture, and requires a concrete construction. The cost is very high, the plants are easily damaged by water, and disease spread is very likely.

III. Summary of Invention

“Legged Pot” means there are legs under the pots(see fig. 1). The legs are filled with soil. It is so that water can be absorbed by the soil from a plastic film or tray. This way the plant will not be damaged by water, water will never be lost, and hand watering is now unnecessary in greenhouses and nursery fields.

IV. Detailed Description of the Invention

The Legged Pot, my invention, has more advantages than regular pots with the trickle irrigation system and wick method. Legged Pots with plastic film flat in greenhouses and nursery fields or with a tray in residential or commercial places are the best design for plant growth. All the problems of traditional pots with the trickle irrigation and wick method are solved when using this design of pots. No water is lost, no fertilizer or pesticide goes into the ground, and the water will never damage the plants. Material cost is very low. Less soil is used because the soil environment in the pot is improved. Almost no watering cost. Only thing needed for watering plants is just turning on the faucet in greenhouses and nursery fields. Possibility of disease spread is dramatically decreased. Watering plants once a month in residential and commerce place.

Legged pots used in greenhouses and nursery field with plastic film underneath (see Fig-4) can be watered only once a week or once another week. The sides of film are held up by wooden rods, steel wire, or even by soil to make a tray to hold water. The depth of the trays is about 3-5 inches and there is no limit on the length. A faucet can be placed on one end or midway for water irrigation.

The legs can also be applied to regular trays. It looks like a "Legged Box" (see fig. 5). Their size can be varied. The depth ranges from 4 to 7 inches. The number and length of the legs depends on the size of the box. Its functions like a flower or vegetable bed. The flat of plastic film used are the same as described in above paragraph.

The legged pots or boxes can be used in sand culture to solve the problems. The pots ,boxes, and flat of plastic film used are the same as described in above paragraph too.

V. What is Claims is:

1. Legged pots are not limited by size.
2. Legs under pots are not limited. It can be in groups of three's, four's, or more.
3. Legs also can be used on trays (Legged Boxes) and their size doesn't matter.
4. The length and diameter of legs are not limited. It depends on the size of the trays and the pots.
5. "Legs" can be used in any style of pots.
6. Legs can be made of different materials.
7. Legged pots and boxes can be used in all kinds of places.

VI. Abstract

Build legs into the pot and use them with plastic film or tray to reduce watering cost; labor and material cost; water and fertilizer lose; environmental contaminate; soil in use and to avoid plant damage by water.

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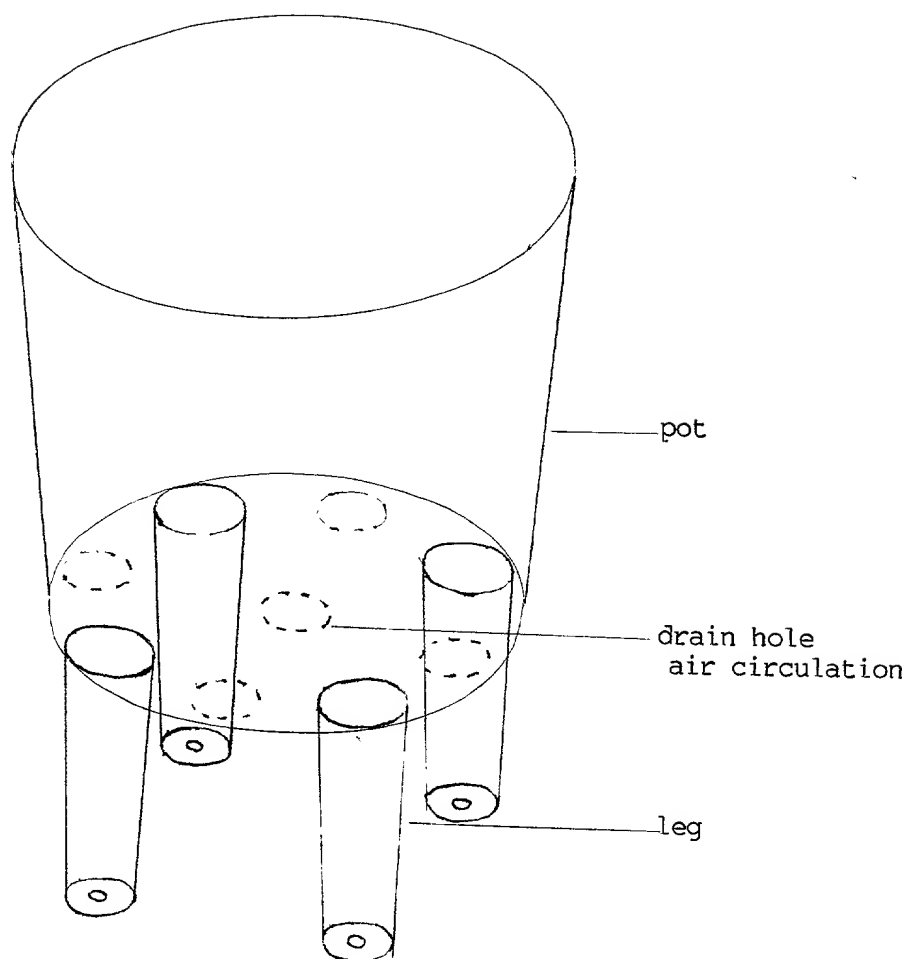


Fig-1 Legged Pot

6

7

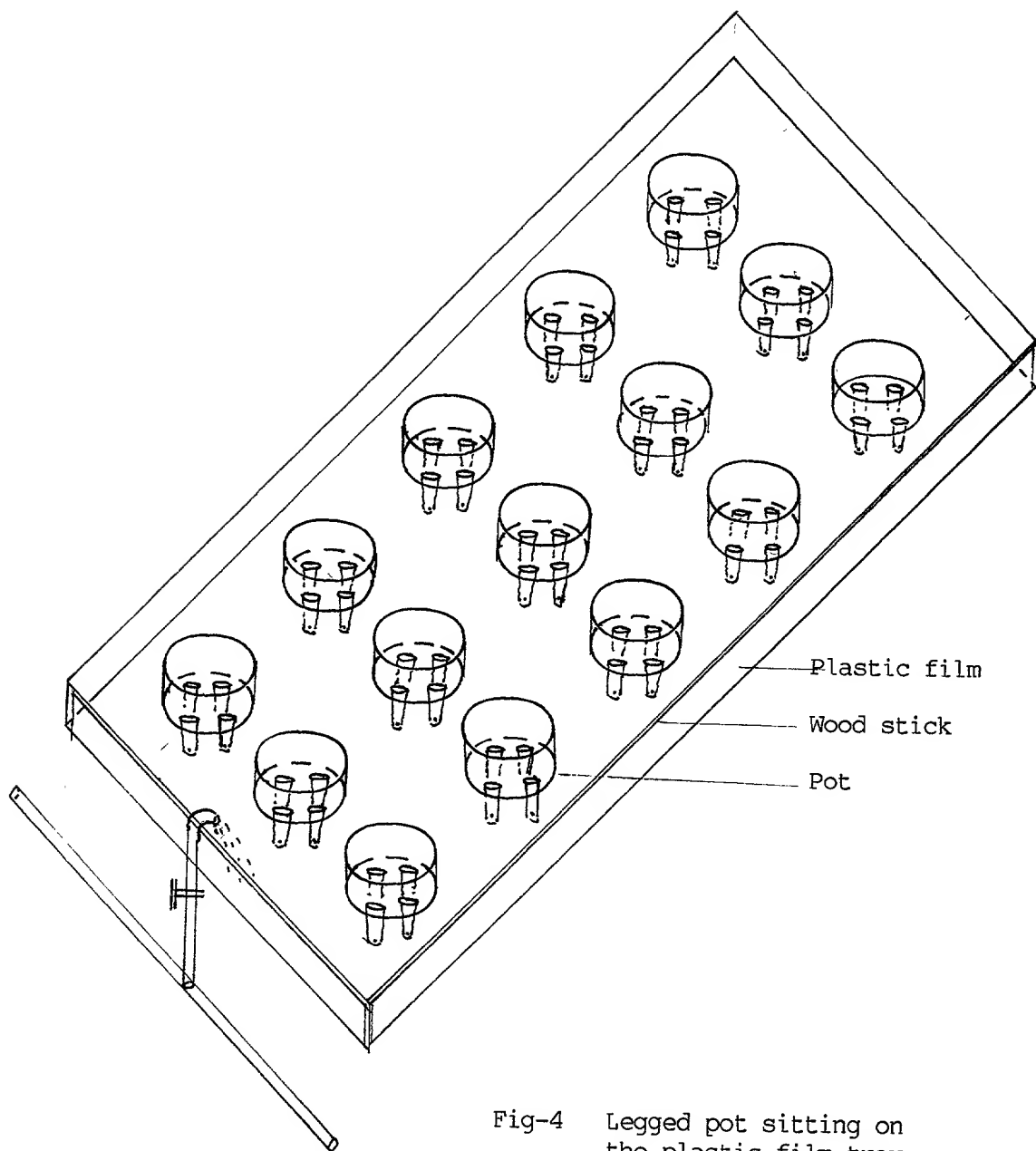


Fig-4 Legged pot sitting on the plastic film tray

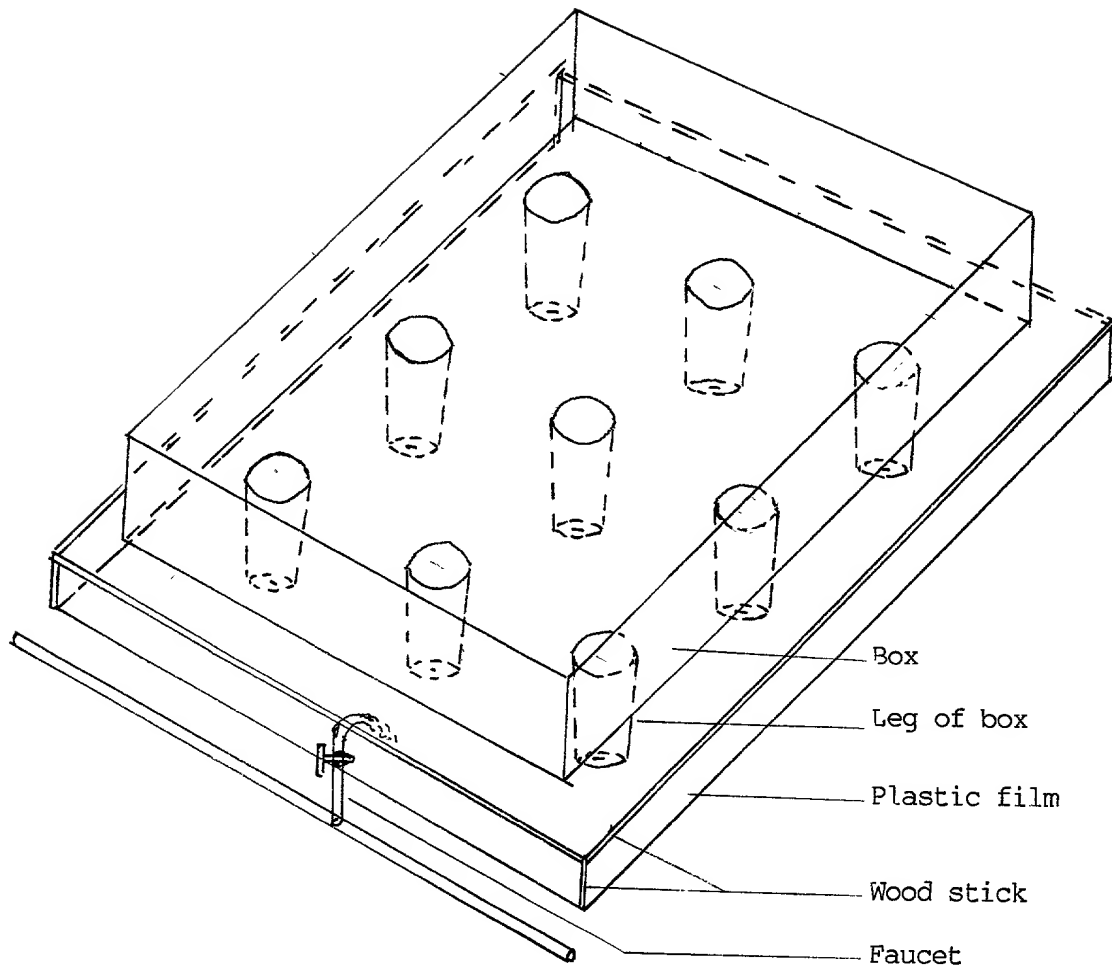


Fig-5 Legged box sitting on the plastic film tray

DESCRIPTION

Fig. 1. is a perspective view of a legged pot showing my new design;

Fig. 2. is a side view thereof;

Fig. 3. is a top view thereof;

Fig. 4. is perspective view of legged pot sitting on the plastic
film tray;

Fig. 5. is a perspcetive view of legged box sitting on the plastic
film tray.

03990155-121297

(19) UNITED STATES PATENT

(54) LEGGED POT

(75) INVENTOR: JIANHUA FAN

(57) ABSTRACT

7 claims, 5 drawings

1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2216-2217	
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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

☒ Declaration Submitted with Initial Filing OR ☐ Declaration Submitted after Initial Filing

Attorney Docket Number

First Named Inventor

COMPLETE IF KNOWN

Application Number

Filing Date

Group Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

LEGGED POT

(Title of the Invention)

the specification of which

☒ is attached hereto
OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
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☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

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U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

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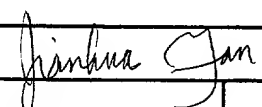
☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer Number OR ☒ Correspondence address below

Name	JIANHUA FAN					
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Address	APT. C-2					
City	NASHVILLE	State	TN	ZIP	37209-3121	
Country	U. S. A.	Telephone	615-356- 3211		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))				Family Name or Surname			
JIANHUA				FAN			
Inventor's Signature						Date	12/08/97
Residence: City	NASHVILLE	State	TN	Country	U. S. A.	Citizenship	CHINA
Post Office Address	5800 MAUDINA AVE						
Post Office Address	APT. C-2						
City	NASHVILLE	State	TN	ZIP	37209	Country	U.S.A.

☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto